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Made



POLO GAMES CULTIVATION OF PAPAYA IN HAWAIIAN ISLANDS

cultivation read by H. M. Wells before the Farmers' Institute:

The papaya is supposed to be indigenous to Central America. From there it has been introduced through almost the entire tropical world. While it is distinctly a tropical fruit and reaches its greatest perfection only in hot climates yet it may be cultivated as the limit of frost. Hawali, being a semi-tropical land, furnishes then only a moderately good home for this

It flourishes best on the lee side of our Islands and in sheltered positions, though the trees will bear an astonishing amount of wind and still do fairly well, especially if they are grown in

LOCATION AND SOIL.

In selecting a location for a papaya grove too great care cannot be exer- compact little tree almost as symmetri- or other material to retain the mois- The limited experience that I have had cised. The essentials to success are call as a kahili. As the tree gets older ture; being careful to remove the cov- leads me to believe that this is not the good soil, abundant of water and good drainage.

sarily mean soil that is entirely free grows to such a large size in the West application of fertilizer will hasten good results. from stones. Indeed the papaya is said Indies. to flourish best in rocky soil. In my own experience I have found that they flourish wherever they can get a foot- it is similar to the "half long" mention- stunted it is better to start over again, hold among the rocks, and can thrust off their numerous lateral roots in search of food, either under or between the rocks.

However rocks are not an absolute essential to the cultivation of the papaya, and if your field has once been retained a decided green cast when paya, and it your held has once been quite mature, so that the fruit was ency the boxes should be wet down fruit not maturing, but falling to the conditions would hardly be advisable. often rejected as being too green when just enough so that the soil will cling ground growth, nor is a heavy clay soil unless you are sure of your drainage.

Abundance of water is an essential; and this not only about the trunks of the trees but over the entire field. For the roots penetrate every portion of the surface soil, and if water is not present in sufficient quantities, the trees, and under most favorable conditions to pro- to put two trees in each hole to ensure hence the fruit, will suffer.

Most important of all perhaps is good drainage; for a few days of standing absolutely necessary.

PREPARATION OF SOIL.

according to conditions. If the field can be plowed to a good depth so much less was responsible for the fact that small hole for the tree in the midst of the better; but if the soil is fairly light papayas were long considered only as a grass plot is bad for any fruit, but and porous, this is not absolutely nec-

A good dressing of stable manure thoroughly worked into the soil a month next one, the long bell-shaped sort. or two before planting would undoubt- The latter will rival the former in the edly bring large returns. Indeed it is number of fruits it will set. I have should be picked in ten months or a almost impossible to make the soil too counted eighty on a single tree, but year from planting. rich, as the papaya is a gross feeder and not one reached a marketable size. No will amply repay any extra outlay in doubt the size might be increased in the way of fertilizer by quickness and both of these varieties by thinning rankness of growth, and in the increas- them out, but I doubt if they would ed number, size and quality of its fruits. eyer equal the other sorts, As one Honolulu lady remarked, "You must plant cats and dogs in the same all that I have yet observed here in pounders on her trees; I think the larg- are ver sweet but of no value. It est ever grown here.

In our red soil at Kaimuki, the only preparation I have found necessary was would alse from their seeds. to dig holes, some three feet in diameter and one foot deep wherever I could find sufficient space between the rocks. half-long and the dwarf., Before we a handful of high grade commercial fer-6 cents to children under fourteen years tilizer. This fertilizer has been thoroughly mixed with the soil a day or after all our trouble. two before transplanting to prevent burning. The young plant responds and grows with almost amazing rapid-

SEED.

portant mafter, and a rather difficult light on it would be of great value. one. Several species of papayas have A prominent gardener in the Islands been brought to Hawaii, but it is al- is responsible for the statement that most impossible to secure pure seed of seed from the ruit of old trees will any of them, so liable are they to cross- produce a large proportion of bearing fertilization. However there are lines trees, while that from young trees will of division that are as yet quite dis- produce mostly males. If this is true it tinct among our Hawaiian grown pa- is well worth remembering.

planting is the so-called "long" papa- which the two could be known when ya, sometimes called the Mexican papa- quite young; but this is to say the least give estimates on all kinds of Building ya. This I believe to be in its pure very difficult. If the matter can be

One distinctive feature of this variety better, A list of second-hand Sugar Machin- and a very important one is that there In this connection it might be well ery and other Machines and Tools in are no male trees. Every tree is com- to mention the fact that trees have pletely hermaphrodite and so fruit- actually been changed from the flowerbearing. A field planted to this variety ing or male to the fruit-bearing or alone presents a most pleasing sight female simply by persistent breaking the firm of W. T. GARRATT & CO., of strong even growth, and under fa- off of the blossoms, or by topping, till of San Francisco, Cal., Manufacturers vorable conditions, of very heavy fruit- they show signs of reforming. This age. Indeed I sometimes think this va- sounds rather fishy, but it has actually riety will bear more neglect than any been done by several people in the Is-Supplies, will be prepared to receive of the others before refusing to yield lands. any more fruit,

The long papaya is so distinct from own satisfaction that this method is the others that a description seems al- not a success on a large scale, as it most needless here. The fruits are from takes a long time for new blossoms to eight to fourteen inches long, and from appear, and ten to one the old type three to five in diameter. They are will persist through several periods of blunt at the stem end, and more or adversity. In fact I have never yet less pointed at the blossom end. Its succeeded in changing one drone to a flesh is fine-grained, juicy and delicious. worker.

The only objection to this papaya as a market sort is that it does not keep as well as some others. Dealers also object to it on the ground that it is due care, the next thing is to raise the too heavy for its apparent size, being plants. very meaty and solid, yet there are many customers who will have no other ya should first be washed, rubbing if this variety is to be had in the mar- them together with the hands to re-

will seldom come quite true, yet one Planting should be done in boxes from is almost sure of getting good fruit, four to six inches deep, in rows say Some trees will bear an oval fruit, four inches apart, and seeds not nearoften deeply grooved. On others the ty- er than two inches. pical long fruit will hang side by side One writer on the papaya has stated with oval or with almost round fruit. that not one seed in a hundred will Yet all are of fine quality, and indeed grow. And he based his statement on the hybrids seem firmer and sweeter the fact that when the natives of

by some to be a cross between the long or three plants would grow. This and one variety of the round papaya. method of determining the matter was riation in form, yet there are certain tical gardener. My experience has been well defined characteristics that distin- that every well developed seed will Every day guish this sort from the inferior ones. grow if given a chance. First in importance is their size. They Papaia seeds germinate slowly; hence

Following is the paper on Papaya | will average at least fifty per cent. larger than any others, specimens weighing ten pounds being not uncommon, Second, they differ from others in color. When young, the immature fruit is of a dark green color; when ripe they are of a rich golden color, or sometimes of a russet green overlaid with gold. Their flesh is of a rich orange, firm, thick, julcy and rich, but not quite as fine. This variety I conwith greater or less success as far north sider the best of all for the market. They are good shippers, remaining firm till almost ripe, large, attractive and good sellers.

One other variety I would mention as worthy of general cultivation. This is the so-called "dwarf" papaya, While this sort is in no respect a true dwarf, yet Its habit of growth is such that it may be readily distinguished from all others in a field,

Good soil in this case does not neces- This may be the "violet" papaya that When the plants are well up, a slight the failure of some trees to produce

ed above. But its fruits are of a more Plants should not be over six inches fertilizing the squashes heavily. The decided pear shape, are smaller as high when transplanted, as both roots squashes bore well; but as the trees when half grown

was also quite marked in that it still with great care. Sandy soil is not best suited to their really quite ready for the table. The together. If too dry, it will crumble; flesh in winter also seemed more juicy if too wet it will all fall away from after the squashes were harvested, I sorts The hot weather however has box and with a trowel or other sharp tilizer and in a few weeks they were INSURANCE DEPARTMENT changed all this. This fruits at this tool carefully remove each plant with setting fruit, and eventually produced writing being quite yellow and sweet its ball of dirt.

when ripe duce fruit of very large size, yet it is a larger percentage of bearing trees. a variety of decided merit, and some dealers prefer something smaller than the plants in a thrifty condition. With under-water will ruin an orchard after the ten pounders. It remains to speak us this has meant further applications one has carefully tended it for months of two other varieties grown here that of fertilizer throughout the life of the or years. Several cases of this kind are more or less distinct. The first is plant, say every three months. Do not have come to my notice. Either a de- the round variety with the short stem, cided slope or a porous soil or both are the "mother papaya" of Mrs Tucker's too much water if the drainage is good. song, the tree which has like the old Do not plant anything between the woman who lived in a shoe, "so many rows. The roots will permeate the children she doesn't know what to do." whole surface of the soil and will be Preparation of soil will vary much This variety was, I suspect, the first very jealous of any rivals. one introduced into Hawaii, and doubtpig food in Hawaii.

These five species, with variations are hole with your trees if you want big Hawaii un'ess the fruit of the so-called papayas." This lady had some eighteen male tree be called a variety. These would e an interesting experiment howev to see what kind of trees one but it would take time and good hand-

Our choice of seed then seems to lie among three varieties, the long, the Into the soil thus loosened, we have put leave this branch of our subject, however, it would be well to consider the likelihood of our getting bearing trees

It has been a common experience to plant a number of trees and after carvery quickly to this extra stimulus, ing for them for several months to find that instead of having a well balanced orchard one has a barren field. SELECTION AND SOWING OF Of coal se there is no such difficulty with the long papaya, but with all The selection of seed is a very im- others it is a serious problem and any

Many people have studied the young One of the best species for general plant trying to detect some sign by Supplies, Wood or Iron Work; will also state, the most highly bred of them all, determined in the seed so much the

I have, however, demonstrated to my

PLANTING THE SEED.

Having selected our seed with all

The seed when taken from the papamove the outside covering and pulp. Seed of this variety as of all others then dried if not planted immediately.

some island wanted a tree, they dug Next, or perhaps first in point of a hole in the ground, and put in two value, is the so-called "half-long" said or three papayas, from which only two Here we find an almost endless va- certainly not very conclusive to a prac-



The leaf stalk of this papaya is short the soil in the boxes should be kept would bear little or no fruit, or fruit and decidedly recurved. The result, es- moist for a long time. It is a good much smaller than that of the parent pecially in a young tree is a trim, plan to cover the boxes with sacking tree. this characteristic is less marked. The ering as soon as the plants appear, case; that it is bad environment and

their growth as it is important to keep The fruits of this variety set quite the plants moving from seed to matur- lustrate my meaning. In a small part freely on long stems. In this respect ity. If a young plant has once become of a certain field I planted squashes begrown here, and are of a lighter green and stems of older plants are very In the winter months, this variety die. Transplanting them must be done of large yield while those among which

and less sweet than any of the other the roots. Then remove one side of the gave those trees an extra dose of fer-

Plants should be placed not less than done While trees of this variety failed eight feet apart. My practice has been

The great consideration now is to keep

The common practice of making a especially so for the papaya, and ex- tree's natural existence. The very fact This is the variety that you don't cept in rare cases will result in a that the tree bears fruit at all proves want to save seed from-this and the stunted growth, and either no fruit at its vitality. Spare the old tree. If it

Under favorable conditions fruit

THE MARKET.

The market so far as the raw product is concerned, is of course very limited, being confined to Honolulu and what can be sold at the coast. So far we have had very little experience in shipping to the coast. One or two shipments have gone very well, while others have arrived in bad condition. believe that properly packed, they can be sent to the coast successfully ling to build up any large market for

As to the canned product, others can speak from a larger experience. conclusion. I was told by a prominent

Island grower that seed from the best trees would produce some trees that were good bearers, and others that

THE BRIGHT SIDE of life. It is a feeling common to the majority of us that we do not get quite the amount of happiness we are entitled to. Among the countless things which tend to make us more or less miserable ill health takes first place. Hannah More said that sin was generally to be attributed to biliousness. No doubt a crippled liver with the resulting impure blood, is the cause of more mental gloom than any other single thing. And who can reckon up the fearful aggregate of pain, loss and fear arising from the many diseases which are familiar to mankind; like a vast cloud it hangs over a multitude no one can number. You can see these people everywhere. For them life can scarcely be said to have any "bright side" at all. Hence the eagerness with which they search for relief and cure. Remedies like WAMPOLE'S PREPARATION have not attained their high position in the confidence of the people by bald assertions and boasting advertisements. They are obliged to win it by doing actually what is claimed for them. That this remedy deserves its reputation is conceded. It is palatable as honey and contains the nutritive and curative properties of Pure Cod Liver Oil, combined with the Compound Syrup of Hypophosphites, Extracts of Malt and Wild Cherry. Nothing has such a record of

success in Scrofula, Influenza, Throat and Lung Troubles, and emaciating complaints and disorders that tend to undermine the foundations of strength and vigour. Its use helps to show life's brighter side. Professor Reddy, of Canada, says: "I have much pleasure in stating that I have used it in cases of debility and found it to be a very valuable remedy as well as pleasing to take." You cannot be disappointed in it. Sold by chemists.

leaf stalk has also a decided violet hue. which will be in ten days or two weeks. not bad heredity that is the cause of

A bit of personal experience will iltween the rows of young papaya trees in that field developed, all the other easily injured, and when injured will trees set fruit and gave every promise the squashes were planted seemed less When the soil is of sufficient consist- thrifty and set no fruit; the young

The difference was so marked that as fine fruit as the other trees had

Another point along the same line It is commonly remarked that as a papaya tree gets older, the fruit gets smaller and smaller till the tree loses all its usefulness. This I believe is the result of nothing more or less than the exhaustion of certain food elements in the soil. Experience so far shows that two year old trees may be made to increase the size of their fruit almost if not quite equal to that of their first year's fruiting. How long the life and usefulness of

tree may be profitably prolonged is a question yet to be solved, but I suspect that it is simply a question of proper food within the limit of the get too tall for convenience in picking simply cut off the top and it will branch out below, but before you go to the trouble of raising a new tree give the old one a chance. "Dig about it and dung it, and it will bear fruit

The initial tournament of the Haleiwa Golf Club was a decided success in every way, the day being all that could One point I wish to emphasize in be desired and the course, thanks to the recent rains, better than ever before. The Haleiwa Hotel new controls the keep all horses and mules off the green, Richard IversSecretary smoothness of the lie and the pleasure Sugar Factors and Commission Agents of the players. The names of the first five players, with scores and handicaps are as follows:

> Score Ha'cap Net Dr. H. Wood114 23 12 Ser. Judge A. S. Mahaulu.. 98 Oswald Mayall 108 Scr. Judge Mahaulu made the best gross

score, 98, and Fred Church the next, 106, both playing better than they have ever done before. C. W. Case Deering pool, Alliance Assurance Company of did the best driving of the day, but showed lack of practice in his approaching shot and on the putting green. On the coming Sabbath golf will be forsak- WM. G. IRWIN & CO., LTD, en for a climb up Kaala, a number of enthusiasts expecting to come down from town to make the ascent.

Gueste at Haleiwa.

Following are the registrations at Haleiwa Hotel for the week ending facturers of National Cane Shredder, Aug. 14th: Miss C. L. Hartwell, Hono- New York, N. Y. ulu: Mrs. James Lynch, Miss Lynch, California; Miss Katherine Lynch, Hoiolulu; Mrs. J. A. McCandless, Master James McCandless, T. M. Betchel, Col. . P. Iaukea, Honolulu; Mr. and Mrs. C. W. Case Deering, Chicago; Mr. and Mrs. H. J. Bardwell, Chicago; William Gibson, Ceylon; Chris J. Holt, Wai anae: D. L. Austin, Honolulu; Frank L. Webster, Waialae; E. G. Carrera, Honolulu; H. H. James, San Francisco; Mrs. R. F. Bickerton, Spencer Bickerton, A. S. Mackenzie, Miss, Mackenzie Miss I. , Mackenzie, San Jose; H. G. Ramsay, Honolulu; W. Stem Millard and wife, London: Miss I. Dayton, Mrs. Honolulu Candy Co. D. Dayton, Honolulu: John Effinger, Honolulu; James E. Carroll, Poughkeepsie, N. Y.: B. P. Ehlers, Honolulu; G. F. Holloway and wife, W. R. Waters and wife, J. Martin Smith, New Zealand; Mrs. A. H. Lackland, Honolulu; Miss W. A. Peabody, New York City; E. M. Thompson, Hilo; T. Purvis, Miss E. A. Purvis, Ontaria, Cal.; A. Holmes, E. K. Ellsworth, H. R. Grant Wajalua; John W. Farwell, L. Todd.

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